

Table 2 p24

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
24	F5-2 p24(14-23 HXB2)	p24(14-23)	AISPRTLNAW	N	?	murine
	References: [Kusk88, Kusk92]					
	NOTES:					
	• F5-2: In HIV-1+ individuals, antibody to AISPRTLNAW is associated with CD4 T-cell decline [Kusk88, Kusk92]					
25	25.3 p24(82,100-102)	(82-102)	RVHPVHAGPIAPGQM- REPRGS	N		murine(IgG ₁ _κ)
	References: [Momany et al.(1996)]					
	NOTES:					
	• 25.3: Crystal structure of the CA protein bound to Fab 25.3 was solved – monomers form 7 α-helices arranged in a coiled-coil – Fab binds to a long antigenic peptide that separates the longest helices, with a salt bridge at CA 82 R, and interactions as far away as positions 100 and 102 [Momany et al.(1996)]					
26	91-6 p24(121-240)	p24	?	N	HIV-1 infection	human(IgG ₁ _λ)
	References: [Gorny89, Robinson Jr. et al.(1990a)]					
	NOTES:					
	• 91-6: No enhancing activity for HIV-1 IIIB [Robinson Jr. et al.(1990a)]					
	• 91-6: NIH AIDS Research and Reference Reagent Program: 1239					
27	3A6 p24(122-149 BH10)	p24(1-17)	TGHSSQVSQNYPIVQ- NIQQQMVMHQAISP	N	HIV-1 infection	human(IgG ₁ _κ)
	References: [Buchacher92, Buchacher94]					
	NOTES:					
	• 3A6: The reactive peptide spans the p17/p24 border of gag [Buchacher94]					
	• 3A6: Human MAbs against HIV generated by electrofusion of PBLs from HIV-1 positive volunteers with CB-F7 cells [Buchacher94]					
28	111/182 p24(134-153 IIIB)	p24(1-20)	PIVQNIQGQMVMHQAI- SPRTL	N	IIIB p24-β-gal fusion	murine(IgG ₁)
	References: [Niedrig91]					
	NOTES:					
	• 111/182: Test specific evidence of cross-reactivity between HIV-1, HIV-2 and SIV MAC [Niedrig91]					
29	112/021 p24(134-153 IIIB)	p24(1-20)	PIVQNIQGQMVMHQAI- SPRTL	N	IIIB p24-β-gal fusion	murine(IgG ₁)
	References: [Niedrig91]					
	NOTES:					
	• 112/021: Test specific evidence of cross-reactivity between HIV-1, HIV-2 and SIV MAC [Niedrig91]					
30	112/047 p24(134-153 IIIB)	p24(1-20)	PIVQNIQGQMVMHQAI- SPRTL	N	IIIB p24-β-gal fusion	murine(IgG ₁)
	References: [Niedrig91]					
	NOTES:					
	• 112/047: Test specific evidence of cross-reactivity between HIV-1, HIV-2 and SIV MAC [Niedrig91]					

HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
31	ID8F6 p24(143-157 BRU)	p24(11-25)	VHQAISPRTLNAWVK ?		Inact CBL-1	murine(IgG ₁)
	Donor: R. B. Ferns and R. S. Tedder					
	References: [Ferns87, Ferns et al.(1989)]					
	NOTES:					
	• ID8F6: Reacted with both p55 and p24 – showed less than 75% homologous inhibition [Ferns87]					
	• ID8F6: UK Medical Research Council AIDS reagent: ARP348					
32	CB-13/5 p24(152-156)	p24(21-25)	NAWVK	N	?	murine(IgG ₁ _κ)
	References: [Grunow90, Franke92, Kuttner92, Glaser96]					
	NOTES:					
	• CB-13/5: It is not clear whether the MAbs CD-13/5 and CB-mab-p24/13-15 are the same, but from					
	• CB-13/5: Called CB-mab-p24/13-15 – the VDJ _H and VJ _L regions of CB-mab-p24/13-15 were sequenced [Kuttner92]					
	• CB-13/5: Inhibits spread of HIV-1 in cell cultures [Franke92]					
	• CB-13/5: Epitope VHQAISPRTLNAWVK – binding not affected by bound MAb CB-4/1 [Glaser96]					
33	1A7 p24(152-172 SIVmac)	p24(152-172)	CVKQGPKEPFQSYVD-RFYKSL	N	Inact AGMTYO-7	murine(IgG ₁)
	References: [Otteken et al.(1992)]					
	NOTES:					
	• 1A7: Recognized an epitope present on HIV-2/SIVmac (MAC251/32H) and HIV-2smmH4, but not SIVagmTYO-1, HIV-1 IIIB or SIVmnd [Otteken et al.(1992)]					
34	1.17.3 p24(152-172 SIVmac)	p24(152-172)	CVKQGPKEPFQSYVD-RFYKSL	N	Inact AGMTYO-7	murine(IgG ₁)
	References: [Otteken et al.(1992)]					
	NOTES:					
	• 1.17.3: Recognized an epitope present on HIV-2/SIVmac (MAC251/32H) and HIV-2smmH4, but not SIVagmTYO-1, HIV-1 IIIB or SIVmnd [Otteken et al.(1992)]					
35	1F6 p24(152-172 SIVmac)	p24(152-172)	CVKQGPKEPFQSYVD-RFYKSL	N	Inact AGMTYO-7	murine(IgG ₁)
	References: [Otteken et al.(1992)]					
	NOTES:					
	• 1F6: Recognized an epitope present on HIV-2/SIVmac (MAC251/32H) and HIV-2smmH4, but not SIVagmTYO-1, HIV-1 III-B or SIVmnd [Otteken et al.(1992)]					
36	F5-4 p24(153-174 HXB2)	p24	IRQGPKEPFRDYVDR-FYKTLRAE	N	?	murine
	References: [Kusk88, Kusk92]					
	NOTES:					
	• F5-4: Located in the most hydrophilic region of p24 [Kusk88, Kusk92]					

HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
37	CD-4/1 p24(182-197)	p24(46-56)	GATPQDLNTML	N		murine(IgG _{2a})
	References: [Grunow90, Franke92, Hohne93, Glaser96, Ehrhard96]					
	NOTES:					
	• CD-4/1: Also called CB-4/1/F6 [Grunow90]					
	• CD-4/1: Inhibits spread of HIV-1 in cell cultures [Franke92]					
	• CD-4/1: Affinity of CB-4/1 to native p24 is lower than to peptide or denatured p24 – proposed that the peptide binds in a loop conformation [Hohne93]					
	• CD-4/1: Unusual p24-MAb binding kinetics, with biphasic association – probably due to conformational changes in p24, not to p24 dimerization [Glaser96]					
	• CD-4/1: Modification of p24 lysine residues by maleic anhydride increased the affinity of CD-4/1, presumably due to conformational changes exposing a cryptic epitope [Ehrhard96]					
38	15F8C7 p24(183-197)	p24(47-56)	ATPQDLNTML	N	Purified HIV-1	murine(IgG ₁)
	References: [Janvier90, Janvier92]					
	NOTES:					
	• 15F8C7: Mapped to aa209-217 through Pepscan method – cross-reacts with HIV-2 [Janvier90] – maps to aa203-217 through EIA pentadecapeptide [Janvier92]					
39	111/052 p24(183-192 IIIB)	p24(51-60)	DLNMLNTVG	N	IIIB p24-β-gal fusion	murine(IgG ₁)
	References: [Niedrig91]					
	NOTES:					
	• 111/052: Weak cross-reaction with HIV-2 on WB, otherwise not cross-reactive with HIV-2 or SIV MAC [Niedrig91]					
40	91-5 p24(196-207)	p24(64-75)	AAMQMLKETINE ?	N	HIV-1 infection	human(IgG _{1λ})
	References: [Gorny89, Robinson Jr. et al.(1990a)]					
	NOTES:					
	• 91-5: Synthesized by immortalization of peripheral blood cells with Epstein-Barr virus [Gorny89]					
	• 91-5: Did not enhance HIV-1 IIIB infection [Robinson Jr. et al.(1990a)]					
41	47-2 p24(201-218 BRU)	p24(69-86)	LKETINEAAEWDRV-HPV	N	BRU	murine(IgG)
	References: [RobertHebmann92a, RobertHebmann92b]					
42	714/01 p24(201-218 BRU)	p24(69-86)	LKETINEAAEWDRV-HPV	N	IIIB virus	murine(IgG)
	References: [RobertHebmann92a, RobertHebmann92b]					
43	1109/01 p24(201-218 BRU)	p24(69-86)	LKETINEAAEWDRV-HPV	N	IIIB virus	murine(IgG)
	References: [RobertHebmann92a, RobertHebmann92b]					
44	1G5C8 p24(201-218 BRU)	p24(69-86)	LKETINEAAEWDRV-HPV	N	HIV-1 p24	murine(IgG _{2b})
	References: [Janvier90, Janvier92, RobertHebmann92a, RobertHebmann92b]					
	NOTES:					
	• 1G5C8: Mapped to aa209-217 through Pepscan method (original paper, AAEWDRVHP) [Janvier90] – and to aa203-217 through EIA pentadecapeptide [Janvier92]					

HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
45	14D4E11 p24(201-218 BRU)	p24(69-86)	LKETINEAAEWDRV- HPV	N	Purified HIV-1	murine(IgG ₁)
	References: [Janvier90, Janvier92, RobertHebmann92a, RobertHebmann92b]					
	NOTES:					
	• 14D4E11: Mapped to aa209-217 through Pepscan method (original paper, AAEWDRVHP) – cross-reacts with HIV-2 [Janvier90] – and to aa203-217 through EIA pentadecapeptide [Janvier92]					
46	113/038 p24(203-213 IIIB)	p24(71-81)	ETINEEAAEWD	N	IIIB p24-β-gal fusion	murine(IgG ₁)
	References: [Niedrig91]					
	NOTES:					
	• 113/038: cross-reactive between HIV-1, HIV-2 and SIV MAC by multiple assays [Niedrig91]					
47	111/073 p24(203-213 IIIB)	p24(71-81)	ETINEEAAEWD	N	IIIB p24-β-gal fusion	murine(IgG ₁)
	References: [Niedrig91]					
	NOTES:					
	• 111/073: cross-reactive between HIV-1, HIV-2 and SIV MAC by multiple assays [Niedrig91]					
48	113/072 p24(213-222 IIIB)	p24(81-90)	DRVHPVHAGP	N	IIIB p24-β-gal fusion	murine(IgG ₁)
	References: [Niedrig91]					
	NOTES:					
	• 113/072: Weak cross-reaction with HIV-2 on WB, otherwise not cross-reactive with HIV-2 or SIV MAC [Niedrig91]					
49	1-E-4 p24(203-217)	p24(71-85)	ETINEEAAEWRVHP	N	IIIB virus	murine(IgG)
	References: [Niedrig89]					
	NOTES:					
	• 1-E-4: One of nine MAbs that bind to this peptide [Niedrig89]					
50	1-E-9 p24(203-217)	p24(71-85)	ETINEEAAEWRVHP	N	IIIB virus	murine(IgG)
	References: [Niedrig89]					
	NOTES:					
	• 1-E-9: One of nine MAbs that bind to this peptide [Niedrig89]					
51	2-E-4 p24(203-217)	p24(71-85)	ETINEEAAEWRVHP	N	IIIB virus	murine(IgG _{2a})
	References: [Niedrig88, Niedrig89]					
	NOTES:					
	• 2-E-4: Cross reactive between HIV-1, HIV-2 and SIV by ELISA, HIV-1 and HIV-2 by WB [Niedrig88]					
	• 2-E-4: One of nine MAbs that bind to this peptide – cross-reactive with HIV-2 ROD [Niedrig89]					
52	2-H-4 p24(203-217)	p24(71-85)	ETINEEAAEWRVHP	N	IIIB virus	murine(IgG ₁)
	References: [Niedrig88, Niedrig89]					
	NOTES:					
	• 2-H-4: Cross reactive between HIV-1, HIV-2 and SIV by ELISA, HIV-1 and HIV-2 by WB [Niedrig88]					
	• 2-H-4: One of nine MAbs that bind to this peptide – cross-reactive with HIV-2 ROD [Niedrig89]					

HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
53	8-D-2 p24(203-217)	p24(71-85)	ETINEEAAEWDRVHP	N	IIIB virus	murine(IgG _{2a})
	References: [Niedrig89, RobertHebmann92a, RobertHebmann92b]					
	NOTES:					
	• 8-D-2: HIV-1 specific [Niedrig88]					
	• 8-D-2: One of nine MAbs that bind to this peptide [Niedrig89]					
54	8-H-7 p24(203-217)	p24(71-85)	ETINEEAAEWDRVHP	N	IIIB virus	murine(IgG ₃)
	References: [Niedrig88, Niedrig89, RobertHebmann92a, RobertHebmann92b]					
	NOTES:					
	• 8-H-7: One of nine MAbs that bind to this peptide [Niedrig89]					
55	8-G-9 p24(203-217)	p24(71-85)	ETINEEAAEWDRVHP	N	IIIB virus	murine(IgG)
	References: [Niedrig89]					
	NOTES:					
	• 8-G-9: One of nine MAbs that bind to this peptide [Niedrig89]					
56	10-E-7 p24(203-217)	p24(71-85)	ETINEEAAEWDRVHP	N	IIIB virus	murine(IgG ₁)
	References: [Niedrig88, Niedrig89]					
	NOTES:					
	• 10-E-7: Cross reactive between HIV-1, HIV-2 and SIV [Niedrig88]					
	• 10-E-7: One of nine MAbs that bind to this peptide – cross-reactive with HIV-2 ROD and SIV MAC [Niedrig89]					
57	10-G-9 p24(203-217)	p24(71-85)	ETINEEAAEWDRVHP	N	IIIB virus	murine(IgG ₁)
	References: [Niedrig88, Niedrig89]					
	NOTES:					
	• 10-G-9: HIV-1 specific [Niedrig88]					
	• 10-G-9: One of nine MAbs that bind to this peptide [Niedrig89]					
58	11-C-5 p24(203-217)	p24(71-85)	ETINEEAAEWDRVHP	N	IIIB virus	murine(IgG ₁)
	References: [Niedrig88, Niedrig89]					
	NOTES:					
	• 11-C-5: HIV-1 specific [Niedrig88]					
	• 11-C-5: One of nine MAbs that bind to this peptide [Niedrig89]					
59	C5123 p24(203-217 HXB2)	p24(71-85)	ETINEEAAEWDRVHP	N	Inact HIV lysate	murine(IgG _{1κ})
	References: [Hinkula90]					
	NOTES:					
	• C5123: Epitope defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 [Hinkula90]					
60	1-B-7 p24(208-217 BH10)	p24(76-85)	EAAEWDRVHP	N	IIIB	murine(IgG ₁)
	References: [Niedrig88, Niedrig89]					
	NOTES:					
	• 1-B-7: Reacts with two overlapping peptides, region of overlap is given – reacted with HIV-2 and SIV MAC [Niedrig89]					

HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
61	3-B-7 p24(208-217 BH10)	p24(76-85)	EAAEWDRVHP	N	IIIB	murine(IgG ₁)
	References: [Niedrig88, Niedrig89]					
	NOTES:					
	• 3-B-7: Reacts with two overlapping peptides, region of overlap is given – reacted with HIV-2 [Niedrig89]					
62	6-D-12 p24(208-217 BH10)	p24(76-85)	EAAEWDRVHP	N	IIIB	murine(IgG ₁)
	References: [Niedrig88, Niedrig89]					
	NOTES:					
	• 6-D-12: Reacts with two overlapping peptides, region of overlap is given – reacted with HIV-2 [Niedrig89]					
63	6-E-7 p24(208-217 BH10)	p24(76-85)	EAAEWDRVHP	N	IIIB	murine(IgG ₁)
	References: [Niedrig88, Niedrig89]					
	NOTES:					
	• 6-E-7: Reacts with two overlapping peptides, region of overlap is given – reacted with HIV-2 and SIV MAC [Niedrig89]					
64	8-D-5 p24(208-217 BH10)	p24(76-85)	EAAEWDRVHP	N	IIIB	murine(IgG)
	References: [Niedrig88, Niedrig89]					
	NOTES:					
	• 8-D-5: Reacts with two overlapping peptides, region of overlap is given – bound only HIV-1 [Niedrig89]					
65	FF1 p24(208-222 HXB2)	p24(76-90)	EAAEWDRVHPVHAGP	N	Inact HIV	murine(IgG _{1κ})
	References: [Hinkula90]					
	NOTES:					
	• FF1: Epitope defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 [Hinkula90]					
66	RL4.72.1 p24(219-233 BRU)	p24(87-101)	HAGPIAPGQMREPRG	N	NDK	murine(IgG)
	References: [Tatsumi90, RobertHebmann92a, RobertHebmann92b]					
	NOTES:					
	• RL4.72.1: Immunized with inactivated HIV NDK, D clade, reacts with B clade peptide [RobertHebmann92b]					
67	406/01 p24(233-253 BRU)	p24(101-121)	GSDIAGTTSTLQEQL-GWMTNN	N	IIIB	murine(IgG)
	References: [RobertHebmann92a, RobertHebmann92b]					
68	38:9.6K p24(253-262 HXB2)	p24(121-130)	NPPIPVGELY	N	r p24-15	murine(IgG _{1κ})
	References: [Hinkula90]					
	NOTES:					
	• 38:9.6K: Also called 38:96K – epitope defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 [Hinkula90]					
	• 38:9.6K: UK Medical Research Council AIDS reagent: ARP365					
69	1B2C12 p24(273-292 IIIB)	p24(149-154)	SILDIF	N	purified HIV-1	murine(IgG ₁)
	References: [Janvier90, Janvier92]					
	NOTES:					
	• 1B2C12: Reacts with HIV-1 and HIV-2 – mapped to aa281-286 through Pepscan method [Janvier90], and to aa273-292 through EIA pentadecapeptide method [Janvier92]					

HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
70	EF7	p24(273-302 HXB2)	p24(141-170) IVR MYSPT SILD I RQ-GP KEP F RDY V D R F Y K	r p24-15		murine(IgG ₁ _κ)
		References: [Hinkula90]				
		NOTES:				
		• EF7: Epitope defined by peptide blocking of binding to native protein – WB reactive with p53 [Hinkula90]				
		• EF7: UK Medical Research Council AIDS reagent: ARP366				
71	30:3E5	p24(273-302 HXB2)	p24(141-170) IVR MYSPT SILD I RQ-GP KEP F RDY V D R F Y K	r p24-15		murine(IgG ₁ _λ)
		Donor: B. Wahren				
		References: [Hinkula90]				
		NOTES:				
		• 30:3E5: Epitope defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 [Hinkula90]				
		• 30:3E5: UK Medical Research Council AIDS reagent: ARP367				
72	LH-104-K	p24(281-286 BRU)	p24(149-154) SILD I R	N	Peptide	murine(IgG ₁ _κ)
		References: [Haaheim91]				
		NOTES:				
		• LH-104-K: Binds exclusively with p24 (not p55) [Haaheim91]				
		• LH-104-K: UK Medical Research Council AIDS reagent: ARP322				
73	LH-104-E	p24(275-280 BRU)	p24(143-148) R M Y S P T	N	Peptide	murine(IgG ₁ _κ)
		References: [Haaheim91]				
		NOTES:				
		• LH-104-E: Reacts with both p24 and p55 [Haaheim91]				
		• LH-104-E: UK Medical Research Council AIDS reagent: ARP319				
74	23A5G5	p24(285-304 BRU)	p24(153-172) I R Q G P K E P F R D Y V D R-F Y K T L ?	N	IIIB p25	murine(IgG)
		References: [RobertHebmann92a, RobertHebmann92b]				
75	23A5G4	p24(285-304 IIIB)	p24(153-172) I R Q G P K E P F R D Y V D R-F Y K T L ?	N	HIV-1 p24	murine(IgG ₁)
		References: [Janvier90, Janvier92, Janvier et al.(1996)]				
		NOTES:				
		• 23A5G4: Mapped to aa209-217 through Pepscan method [Janvier90] and to aa285-304 through EIA pentadecapeptide method (author's correction) [Janvier92]				
		• 23A5G4: A few sera which were able to bind the linear sequence 178-192, but not sequence 288-302 in an indirect peptide ELISA inhibited the binding of 23A5G4 to the native p24 [Janvier et al.(1996)]				
76	3D10G6	p24(285-304 IIIB)	p24(153-172) I R Q G P K E P F R D Y V D R-F Y K T L ?	N	purified HIV-1	murine(IgG ₁)
		References: [Janvier90, Janvier92]				
		NOTES:				
		• 3D10G6: Epitope cross-reacts with HIV-1 and HIV-2 – mapped to aa260-267 through Pepscan method [Janvier90] and to aa285-304 through EIA pentadecapeptide method (author's correction) [Janvier92]				

HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
77 MO9.42.2	p24(285-310 BRU)	p24(153-178)	IRQGPKEPFRDYVDR-FYKTLRAEQAS	N	HIV2 ROD	murine(IgG)
References: [RobertHebmann92a, RobertHebmann92b] NOTES: <ul style="list-style-type: none"> • MO9.42.2: Reacts with HIV-1s, HIV-2s, and SIVs in rec protein ELISA [RobertHebmann92a] 						
78 MO9.50.2	p24(285-310 BRU)	p24(153-178)	IRQGPKEPFRDYVDR-FYKTLRAEQAS	N	HIV2 ROD	murine(IgG)
References: [RobertHebmann92a, RobertHebmann92b] NOTES: <ul style="list-style-type: none"> • MO9.50.2: Reacts with HIV-1s, HIV-2s, and SIVs in rec protein ELISA [RobertHebmann92a] 						
79 V10	p24(289-303 IIIB)	p24(155-169)	QGPKEPFRDYVDRFY	N	virion	murine
References: [Matsuo92] NOTES: <ul style="list-style-type: none"> • V10: Reacts with HIV-1 and SIV_{AGM} analogous peptides [Matsuo92] 						
80 V107	p24(289-311 IIIB)	p24(155-177)	QGPKEPFRDYVDRFY-KTLRAEQA	N	Virion	murine
References: [Matsuo92] NOTES: <ul style="list-style-type: none"> • V107: Reacts with FIV, HIV-1 and SIV_{AGM} analogous peptides [Matsuo92] 						
81 12-B-4	p24(293-302 BH10)	p24(161-170)	FRDYVDRFYK	N	IIIB virus	murine(IgG ₁)
References: [Niedrig88, Niedrig89] NOTES: <ul style="list-style-type: none"> • 12-B-4: Epitope is defined as the overlap between two HIV-1 reactive peptides – cross-reacts with HIV-2 ROD and SIV MAC [Niedrig88, Niedrig89] 						
82 C5122	p24(293-302 HXB2)	p24(161-170)	FRDYVDRFYK	N	Inact HIV lysate	murine(IgG _{1κ})
References: [Hinkula90] NOTES: <ul style="list-style-type: none"> • C5122: Defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 [Hinkula90] 						
83 11D11F2	p24(303-317 IIIB)	p24(171-185)	TLRAEQASQEVKNWM ?	N	HIV-1 p24	murine(IgG ₁)
References: [Janvier90, Janvier92] NOTES: <ul style="list-style-type: none"> • 11D11F2: Mapped to aa260-267 through Pepscan method [Janvier90] – and to aa303-317 through EIA pentadecapeptide method (author's correction), [Janvier92] 						
84 11C10B10	p24(303-317 IIIB)	p24(171-185)	TLRAEQASQEVKNWM ?	N	HIV-1 p24	murine(IgG ₁)
References: [Janvier90, Janvier92] NOTES: <ul style="list-style-type: none"> • 11C10B10: Mapped to aa260-267 through Pepscan method [Janvier90] – and to aa303-317 through EIA pentadecapeptide method (author's correction) [Janvier92] 						

HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
85 9A4C4	p24(303-317 IIIB)	p24(170-188)	KTLRSEQASQEVKNW-MTET	N	IIIB p25	murine(IgG ₁)
					References: [Janvier90, Janvier92, RobertHebmann92a, RobertHebmann92b]	
					NOTES:	
					• 9A4C4: Mapped to aa260-267 through Pepscan method [Janvier90] – and to aa303-317 through EIA pentadecapeptide method (author's correction)[Janvier92]	
86 BE3	p24(308-322 HXB2)	p24(176-190)	QASQEVKNWMTEPLL	N	r p24-15	murine(IgG _{1κ})
					Donor: B. Wahren	
					References: [Hinkula90]	
					NOTES:	
					• BE3: Defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 [Hinkula90]	
					• BE3: UK Medical Research Council AIDS reagent: ARP368	
87 L14	p24(308-322 HXB2)	p24(176-190)	QASQEVKNWMTEPLL	N	r p24-15	murine(IgG _{1κ})
					Donor: B. Wahren	
					References: [Hinkula90]	
					NOTES:	
					• L14: Defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 [Hinkula90]	
					• L14: UK Medical Research Council AIDS reagent: ARP369	
88 110/015	p24(313-322 IIIB)	p24(181-190)	VKNWMTEPLL	N	IIIB p24-β-gal fusion	murine(IgG ₁)
					References: [Niedrig91]	
					NOTES:	
					• 110/015: Cross-reactive between HIV-1, HIV-2 and SIV MAC by multiple tests [Niedrig91]	
89 108/03	p24(313-322 IIIB)	p24(181-190)	VKNWMTEPLL	N	IIIB p24-β-gal fusion	murine(IgG ₁)
					References: [Niedrig91]	
					NOTES:	
					• 108/03: Cross-reactive between HIV-1, HIV-2 and SIV MAC by multiple tests [Niedrig91]	
90 32:32K	p24(331-354 HXB2)	p24(199-222)	KTILKALGPAATLEE-MMTACQGVG	r p24-15		murine(IgG _{1λ})
					References: [Hinkula90]	
					NOTES:	
					• 32:32K: Epitope defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 [Hinkula90]	
					• 32:32K: UK Medical Research Council AIDS reagent: ARP368	
91 C5200	p24(331-354 HXB2)	p24(199-222)	KTILKALGPAATLEE-MMTACQGVG	Inact HIV-1 lysate		murine(IgG _{1κ})
					References: [Hinkula90]	
					NOTES:	
					• C5200: Epitope defined by peptide blocking of binding to native protein [Hinkula90]	

HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
92 FH2	p24(333-347 HXB2)	p24(201-214)	ILKALGPAATLEEMM	N	r p24-15	murine(IgG ₁ _κ)
References: [Hinkula90]						
NOTES:						
• FH2: Defined by peptide blocking of binding to native protein – WB reactive with p53 and p24 [Hinkula90]						
93 106/01	p24(343-362 IIIB)	p24(211-230)	LEEMMTACQGVGGPG-HKARV	N	IIIB p24-β-gal fusion	murine(IgG ₁)
References: [Niedrig91]						
NOTES:						
• 106/01: Cross-reactive between HIV-1, HIV-2 and SIV MAC by multiple tests [Niedrig91]						
94 LH-104-B	p24(357-362 BRU)	p24(225-230)	GHKARV	N	Peptide	murine(IgG ₁ _κ)
References: [Haaheim91]						
NOTES:						
• LH-104-B: Binds exclusively with p55 (not p24), in contrast to LH-104-I [Haaheim91]						
• LH-104-B: UK Medical Research Council AIDS reagent: ARP308						
95 LH-104-I	p24(358-363 BRU)	p24(226-231)	HKARVL	N	Peptide	murine(IgG ₁ _κ)
References: [Haaheim91]						
NOTES:						
• LH-104-I: Binds exclusively with p24 (not p55), in contrast to LH-104-B [Haaheim91]						
• LH-104-I: UK Medical Research Council AIDS reagent: ARP321						
96 LH-104-G	p24(363-368 BRU)	p24(231-236)	LAEAMS	N	Peptide	murine(IgG ₁ _κ)
References: [Haaheim91]						
NOTES:						
• LH-104-G: LF-104-G: Reacts with both p24 and p55, in contrast to LH-104-I [Haaheim91]						
• LH-104-G: UK Medical Research Council AIDS reagent: ARP320						
97 LH-104-A	p24(dis BRU)	p24(dis)	284 DIRQGP 289 + 351 QGVGGP 356	N	104 amino acid peptide	murine(IgG ₁ _κ)
References: [Haaheim91]						
NOTES:						
• LH-104-A: LF-104-A: Hexapeptide scans revealed two reactive p24 peptides – cross-competition studies indicated the region 270-286 [Haaheim91]						
• LH-104-A: UK Medical Research Council AIDS reagent: ARP307						
98 EH12E1	p24(dis)	p24(dis)	DISCONTINUOUS, 193-227 and 253-267 LAI	Inact CBL-1		murine(IgG ₁)
Donor: R. B. Ferns and R. S. Tedder						
References: [Ferns87, Ferns et al.(1989)]						
NOTES:						
• EH12E1: Reacted with p55 and p24 in WB [Ferns87]						
• EH12E1: UK Medical Research Council AIDS reagent: ARP313						

HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
99	LH-104-C p24(dis BRU)	p24(dis)	288 GPKEPF 293 + 351 QGVGGP 356	N	104 amino acid peptide	murine(IgG _{3κ})
	References: [Haaheim91]					
	NOTES:					
	• LH-104-C: LF-104-C: Hexapeptide scans revealed two reactive p24 peptides – cross-competition studies indicated the region 351-373 [Haaheim91]					
	• LH-104-C: UK Medical Research Council AIDS reagent: ARP309					
100	71-31 p24	p24	?	N	HIV-1	human(IgG _{1λ})
	References: [Gorny89, Robinson Jr. et al.(1990a), Robinson Jr. et al.(1991), Spear et al.(1993)]					
	NOTES:					
	• 71-31: Did not enhance HIV-1 IIIB infection [Robinson Jr. et al.(1990a)]					
	• 71-31: No enhancing or neutralizing activity [Robinson Jr. et al.(1991)]					
	• 71-31: Did not mediate deposition of complement component C3 on HIV infected cells [Spear et al.(1993)]					
	• 71-31: NIH AIDS Research and Reference Reagent Program: 530					
101	V7-8 p24	p24	?	N	HIV-1 infection	murine(IgG _{3κ})
	References: [Robinson Jr. et al.(1990a), Montefiori et al.(1991)]					
	NOTES:					
	• V7-8: Did not enhance HIV-1 IIIB infection [Robinson Jr. et al.(1990a)]					
	• V7-8: Reacted with HIV-1IIIB, RF, and MN [Montefiori et al.(1991)]					
	• V7-8: NIH AIDS Research and Reference Reagent Program: 381					
102	98-4.9 p24	p24	?	N	HIV-1 infection	murine(IgG _{3λ})
	References: [Gorny89]					
103	98-4.3 p24	p24	?	N	HIV-1 infection	human(IgG _{1λ})
	References: [Robinson Jr. et al.(1991)]					
	NOTES:					
	• 98-4.3: No enhancing or neutralizing activity [Robinson Jr. et al.(1991)]					
104	3D3 p24(177-182 LAI)	p24(45-50)	EGATPQ ?	Inact	CBL-1	murine(IgG _{2b})
	Donor: R. B. Ferns and R. S. Tedder					
	References: [Ferns87, Ferns et al.(1989)]					
	NOTES:					
	• 3D3: Most broadly reactive of all the antibodies in this study[Ferns87]					
	• 3D3: UK Medical Research Council AIDS reagent: ARP314					
105	EB1A9 p24(253-267 LAI)	p24(121-135)	NPPIPVGEIYKRWII ?	Inact	CBL-1	murine(IgG ₁)
	Donor: R. B. Ferns and R. S. Tedder					
	References: [Ferns87, Ferns et al.(1989)]					
	NOTES:					
	• EB1A9: Reacted with both p55 and p24 – showed less than 75% homologous inhibition [Ferns87]					
	• EB1A9: UK Medical Research Council AIDS reagent: ARP345					

HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
106	CD12B4 p24(303-317 LAI)	p24(171-185)	TLRAEQASQEVKNWM ?	Inact	CBL-1	murine(IgG ₁)
	Donor: R. B. Ferns and R. S. Tedder					
	References: [Ferns87, Ferns et al.(1989)]					
	NOTES:					
	• CD12B4: Reacted with both p55 and p24 – strain-specific binding [Ferns87]					
	• CD12B4: UK Medical Research Council AIDS reagent: ARP346					
107	IE8G2 p24	p24	?	Inact	CBL-1	murine(IgG ₁)
	Donor: R. B. Ferns and R. S. Tedder					
	References: [Ferns87, Ferns et al.(1989)]					
	NOTES:					
	• IE8G2: Reacted with both p55 and p24 – broadly reactive – showed less than 75% homologous inhibition [Ferns87]					
	• IE8G2: UK Medical Research Council AIDS reagent: ARP347					